

	Date	Class Focus	Assignments
Class 1 9:00-12:00	8/24/16	Engineering Design Cycle - Construct Bottle Rocket Launchers Assign Water Bottle Rocket Research - Imagine, Plan, and Create Intro NSTA Learning Center - Locate 3 articles Engineering Design Mindset - Growth (Grit) & Fixed Intro	
Class 2 9:00-12:00	8/31/16	Launch Bottle Rockets & complete EDP Packet . Analyze results, plan Improvements & Concluding Writing Activity State Science Standards Treasure Hunt + K-12 Framework for Science Education Interactive Notebooks	❖ Bring Bottle Rockets - complete side one of EDP Packet + sketch ❖ Select and read one Engineering & Design Article - complete "I Can Read Informational Texts" Graphic Organizer
Class 3 9:00-12:00	9/7/16	Science Practices - What is the Nature of Science?; Core Sampling Lesson Planning 101 - Objectives. Unpacking Standards - Rationale & Misconceptions Reading in Science - Informational Texts and Text Complexity	❖ Interactive Notebook - Learning Center Discussion ❖ Science Practices Reading - "Write About" Graphic Organizer
Class 4 9:00-12:30	9/14/16	Planning a 5E Inquiry-Based Lesson - 5E with Toys Lesson Planning 101 - Academic Vocabulary & Language Demands Lesson Starter - 5E Model Presentation	❖ 5E Reading - "Picture Notemaking" Graphic Organizer
Class 5 9:00-12:30	9/21/16	Bottle Rockets - Revised & New Launches Assessment - Card Sort & Formative Assessment Probes Lesson Planning 101 - Formative & Summative Assessment STEM Robotics Exploration - Dash & Dot; Sphero, WeDo; Mindstorms	❖ Assessment Reading - Response Sheet ❖ First Year Teachers Guide - Section 13. Assess Your Students Progress - Response Sheet
Class 6 9:00-11:30	9/28/16	Lesson Starters - 5E Model Presentations #1-4 Reading in Science - Textmapping Lesson Planning 101 - Question Types Project Learning Tree - Introduction	❖ Maker Movement Reading - Response Sheet
Class 7 9:00-11:30	10/5/16	Lesson Starters - 5E Model Presentations #5-7 Lesson Planning 101 - Differentiation Mini Inquiry - Mealworms	❖ Differentiation Reading - Response Sheet ❖ First Year Teachers Guide - Section 12. Meet the Needs of All of Your Students - Response Sheet
Class 8 9:00-2:30	10/12/16	Project Learning Tree (Place - TBA)	❖ PLT Activity ❖ Science & Nature Reading - Response Sheet
Class 9 9:00-11:30	10/19/16	Scientific Explanations/Argumentation Lesson Planning 101 - Theory STEM 3D Printing Exploration - Printers & Pens	❖ Scientific Argumentation Reading - Response Sheet ❖ First Year Teachers Guide - Section 11. Deliver Engaging Instruction - Response Sheet
Class 10 9:00-11:30	10/26/16	Scientific & Technical Writing Maker Movement Inquiry - Begin	❖ "Scientific Writing" Reading- Response Sheet ❖ First Year Teachers Guide - Section 6. Control Class Time - Response Sheet
Class 11 9:00-11:30	11/2/16	Picture-Perfect Science Maker Movement Inquiry - Continued 5E Formal Lesson Plan - begin writing	❖ Integrating Children's Books- Response Sheet ❖ First Year Teachers Guide - Section 7. Manage Your Classroom - Response Sheet
Class 12 9:00-11:30	11/9/16	K-12 Framework Cross-Cutting Concepts - Oh Deer! Maker Movement Inquiry - Finalize 5E Formal Lesson Plan - continued	❖ Cross-Cutting Concepts Reading- Response Sheet ❖ First Year Teachers Guide - Section 15. Prevent Discipline Problems - Response Sheet
Class 13 9:00-11:30	11/16/16	QR Codes and other Technology Activities 5E Formal Lesson Plan - Finalize	❖ Integrating Technology Reading - Response Sheet
November 23-25 TTU Thanksgiving Break			
Class 14 9:00-12:00	11/30/16	Writing Book &/or Science Field Trip	❖ NSTA Learning Center SciPack Due
Class 15 9:00-12:00	12/7/16	Conclusion of Writing Book &/or Science Field Trip wrapup	
		TSTA Attendance/Presentation - Alternative to one major assignment to be decided. If chosen, can skip math class on 12/5 and science class on 12/7 Need to know choice by September 21	
	12/2-12/3		